

Amendments to the Claims:

Please amend claims 1, 10, 12, 21, 27, 33 and 34 as follows.
The following listing of claims will replace all prior versions,
and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended). A shake correction device
comprising:

Q² an image sensing device for converting a subject image to
image data;

5 a shake detecting section for detecting a shake state;

a prism portion for changing an angle of a light beam
passing therethrough according to a voltage applied thereto,
wherein the prism portion is formed of an optical material having
a refractive index which changes in accordance with the voltage
10 applied thereto;

an application voltage generating section for generating a
voltage applied to said prism portion;

a storage section for storing the relation between the
voltage applied to said prism portion and the deflection angle of
15 the light beam passing through said prism portion;

a control section for determining a voltage to be applied to said prism portion based on an output of said shake detecting section and an output of said storage section and controlling said voltage generating section to generate the thus determined application voltage; and

a² a setting section for selectively setting one of an image sensing mode for image-sensing the subject image and a test mode for measuring the relation between the voltage applied to said prism portion and the deflection angle of the light beam passing through said prism portion which is stored in said storage section by use of said image sensing device.

Claim 2 (Original). The shake correction device according to claim 1, wherein said shake detecting section includes a first shake angle detecting section for detecting a shake angle in a first axial direction and a second shake angle detecting section for detecting a shake angle in a second axial direction perpendicular to the first axial direction.

Claim 3 (Original). The shake correction device according to claim 2, wherein said prism portion includes a first prism for changing the angle of the light beam passing therethrough in the

first axial direction and a second prism for changing the angle
5 of the light beam passing therethrough in the second axial
direction.

A²
Claim 4 (Original). The shake correction device according
to claim 3, wherein said first prism changes the light beam in a
direction to cancel the shake angle detected by said first shake
angle detecting section.

Claim 5 (Original). The shake correction device according
to claim 3, wherein said second prism changes the light beam in a
direction to cancel the shake angle detected by said second shake
angle detecting section.

Claim 6 (Original). The shake correction device according
to claim 1, further comprising a temperature measuring circuit
for measuring a temperature of said prism portion.

Claim 7 (Original). The shake correction device according
to claim 6, further comprising a table data forming circuit for
forming table data obtained by adding temperatures measured by
said temperature measuring circuit to the relation between the

5 voltage applied to said prism portion and the deflection angle of the light beam passing through said prism portion.

Claim 8 (Original). The shake correction device according to claim 1, wherein said shake detecting section detects a shake state occurring in an electronic still camera.

Q²
Claim 9 (Original). The shake correction device according to claim 1, wherein said shake detecting section detects a shake state occurring in a film camera.

Claim 10 (Currently Amended). An electronic still camera comprising:

an image sensing device for converting a subject image to image data;

5 a shake detecting section including a first shake angle detecting section for detecting a shake angle in a first axial direction and a second shake angle detecting section for detecting a shake angle in a second axial direction perpendicular to the first axial direction;

10 a prism portion for changing an angle of a light beam passing therethrough according to a voltage applied thereto,

wherein the prism portion is formed of an optical material having a refractive index which changes in accordance with the voltage applied thereto;

15 a temperature measuring circuit for measuring a temperature of said prism portion;

Q² an application voltage generating section for generating a voltage applied to said prism portion;

20 a storage section for storing the relation between the voltage applied to said prism portion, the deflection angle of a light beam passing through said prism portion and the temperature of said prism portion;

a control section for determining a voltage to be applied to said prism portion based on an output of said shake detecting section and an output of said storage section and controlling said voltage generating section to generate the thus determined application voltage; and

30 a setting section for selectively setting one of an image sensing mode for image-sensing the subject image and a test mode for measuring the relation between the voltage applied to said prism portion and the deflection angle of the light beam passing through said prism portion which is stored in said storage section by use of said image sensing device.

Claim 11 (Original). The electronic still camera according to claim 10, wherein said temperature measuring circuit measures the temperature of said prism portion prior to the shake correcting operation by said prism portion.

a²
Claim 12 (Currently Amended). The electronic still camera according to claim 11, further comprising an application voltage determining circuit for determining voltages to be applied to said ~~first and second prisms~~ prism portion by referring to the application voltage and shake angle stored in said storage section based on the temperature measured by said temperature measuring circuit.

Claim 13 (Original). The electronic still camera according to claim 12, wherein said application voltage determining circuit determines a first application voltage (centering voltage) which prevents said prism portion from changing the angle of the light beam passing therethrough.

Claim 14 (Original). The electronic still camera according to claim 13, wherein said application voltage generating section

Appln. No. 09/578,466
Amdt. dated March 23, 2004
Reply to Office Action of December 24, 2003

generates a first application voltage determined by said application voltage determining circuit.

Claim 15 (Original). The electronic still camera according to claim 12, wherein said application voltage determining circuit determines a second application voltage which permits said prism portion to change the angle of the light beam passing therethrough.

Q2⁵
Claim 16 (Original). The electronic still camera according to claim 15, wherein said application voltage generating section generates a second application voltage determined by said application voltage determining circuit.

Claim 17 (Original). The electronic still camera according to claim 16, wherein said application voltage generating section is operated from the start of the image-sensing operation of said image sensing device to time when a preset shutter period is reached.

Claim 18 (Original). The electronic still camera according to claim 10, wherein said prism portion includes a first prism

for changing the angle of the light beam passing therethrough in
the first axial direction and a second prism for changing the
5 angle of the light beam passing therethrough in the second axial
direction.

Q² Claim 19 (Original). The electronic still camera according
to claim 18, wherein said first prism changes the light beam in a
direction to cancel the shake angle detected by said first shake
angle detecting section.

Claim 20 (Original). The electronic still camera according
to claim 18, wherein said second prism changes the light beam in
a direction to cancel the shake angle detected by said second
shake angle detecting section.

Claim 21 (Currently Amended). A film camera comprising:
a shake detecting section including a first shake angle
detecting section for detecting a shake angle in a first axial
direction and a second shake angle detecting section for
5 detecting a shake angle in a second axial direction perpendicular
to the first axial direction;

a prism portion for changing an angle of a light beam
passing therethrough according to a voltage applied thereto,
wherein the prism portion is formed of an optical material having
10 a refractive index which changes in accordance with the voltage
applied thereto;

Q²
a temperature measuring circuit for measuring a temperature
of said prism portion;

an application voltage generating section for generating a
15 voltage applied to said prism portion;

a storage section for storing the relation between the
voltage applied to said prism portion, the deflection angle of a
light beam passing through said prism portion and the temperature
of said prism portion; and

20 a control section for determining a voltage to be applied
to said prism portion based on an output of said shake detecting
section and an output of said storage section and controlling
said voltage generating section to generate the thus determined
application voltage;

25 wherein one of an image sensing mode for image-sensing a
subject image and a test mode for measuring the relation between
the voltage applied to said prism portion and the deflection
angle of the light beam passing through said prism portion which

is stored in said storage section is selectively set by use of an
30 external control device provided separately from the film camera.

Claim 22 (Original). The film camera according to claim
21, wherein an image sensing unit including an image sensing
device and image sensing device controlling circuit is mounted on
the film camera at the time of test mode.

Q²
Claim 23 (Original). The film camera according to claim
22, wherein the test mode is executed by use of said image
sensing unit.

Claim 24 (Original). The film camera according to claim
21, wherein said prism portion includes a first prism for
changing the angle of the light beam passing therethrough in the
first axial direction and a second prism for changing the angle
5 of the light beam passing therethrough in the second axial
direction.

Claim 25 (Original). The film camera according to claim
24, wherein said first prism changes the light beam in a

direction to cancel the shake angle detected by said first shake angle detecting section.

Claim 26 (Original). The film camera according to claim 24, wherein said second prism changes the light beam in a direction to cancel the shake angle detected by said second shake angle detecting section.

a²
Claim 27 (Currently Amended). An optical device comprising:

5 a shake detecting section including a first shake angle detecting section for detecting a shake angle in a first axial direction and a second shake angle detecting section for detecting a shake angle in a second axial direction perpendicular to the first axial direction;

a prism portion for changing an angle of a light beam passing therethrough according to a voltage applied thereto,
10 wherein the prism portion is formed of an optical material having a refractive index which changes in accordance with the voltage applied thereto;

an afocal optical system disposed behind said prism portion;

15 a ~~collimator~~ lens disposed between said afocal optical system and an image sensing device, for forming an image on the image sensing device by use of parallel light emitted from said afocal optical system;

a temperature measuring circuit for measuring a temperature
20 of said prism portion;

Q²
an application voltage generating section for generating a voltage applied to said prism portion;

a storage section for storing the relation between the voltage applied to said prism portion, the deflection angle of a
25 light beam passing through said prism portion and the temperature of said prism portion;

a control section for determining a voltage to be applied to said prism portion based on an output of said shake detecting section and an output of said storage section and controlling
30 said voltage generating section to generate the thus determined application voltage; and

a setting section for setting a test mode for measuring the relation between the voltage applied to said prism portion and the deflection angle of the light beam passing through said prism
35 portion which is stored in said storage section by use of said image sensing device.

Claim 28 (Original). The optical device according to claim 27, wherein said prism portion includes a first prism for changing the angle of the light beam passing therethrough in the first axial direction and a second prism for changing the angle
5 of the light beam passing therethrough in the second axial direction.

Q²
Claim 29 (Original). The optical device according to claim 28, wherein said first prism changes the light beam in a direction to cancel the shake angle detected by said first shake angle detecting section.

Claim 30 (Original). The optical device according to claim 28, wherein said second prism changes the light beam in a direction to cancel the shake angle detected by said second shake angle detecting section.

Claim 31 (Original). The optical device according to claim 27, wherein the optical device is a binocular.

Claim 32 (Original). The optical device according to claim 27, wherein the optical device is a telescope.

Claim 33 (Currently Amended). An optical device comprising:

an image sensing device for converting a subject image to image data;

2
Q 5 a shake detecting section for detecting a shake state;

a prism portion for changing an angle of a light beam passing therethrough according to a voltage applied thereto,
wherein the prism portion is formed of an optical material having a refractive index which changes in accordance with the voltage applied thereto;
10

an application voltage generating section for generating a voltage applied to said prism portion;

a storage section for storing the relation between the voltage applied to said prism portion and the deflection angle of
15 the light beam passing through said prism portion;

a control section for determining a voltage to be applied to said prism portion based on an output of said shake detecting section and an output of said storage section and controlling

20 said voltage generating section to generate the thus determined application voltage; and

Q²
25 a setting section for selectively setting one of an image sensing mode for image-sensing the subject image by use of said image sensing device and a test mode for measuring the relation between the voltage applied to said prism portion and the deflection angle of the light beam passing through said prism portion which is stored in said storage section by use of said image sensing device.

Claim 34 (Currently Amended). A shake correction method in an optical device having a prism portion for changing an angle of a light beam passing therethrough according to a voltage applied thereto, wherein the prism portion is formed of an optical material having a refractive index which changes in accordance
5 with the voltage applied thereto, comprising:

a shake detecting step of detecting a shake state;
an application voltage determining step of determining a voltage to be applied to the prism portion based on shake
10 information detected by said shake detecting step;

a voltage applying step of applying an application voltage determined by said application voltage determining step to the prism portion;

15 a shake correcting step of effecting a shake correcting process by use of the prism portion in response to application of the voltage in said voltage application step; and

Q²
a data forming step of forming data indicating the relation between the voltage applied to the prism portion and the shake amount which is referred to in said application voltage

20 determining step.
